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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	09/883,196	
			Filing Date	June 19, 2001	
			First Named Inventor	Ben HITT	
			Group Art Unit	2121	
Examiner Name	Joseph P. Hirl				
Sheet	1	of	7	Attorney Docket Number	CORR-001/01US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
H	A1	6,675,104	B2	Paulse et al.	01-06-2004
U	A2	6,558,902	B1	Hillenkamp	05-06-2003
H	A3	2003/0077616	A1	Lomas	04-24-2003
H	A4	2003/0054367	A1	Rich et al.	03-20-2003
H	A5	2002/0193950	A1	Gavin et al.	12-19-2002
H	A6	6,427,141	B1	Barnhill	07-30-2002
H	A7	2002/0046198	A1	Hitt	04-18-2002
H	A8	6,329,652	B1	Windig et al.	12-11-2001
H	A9	6,157,921		Barnhill	12-05-2000
H	A10	6,128,608		Barnhill	10-03-2000
H	A11	6,025,128		Veltri et al.	02-15-2000
H	A12	5,946,640		Goodacre et al.	08-31-1999
H	A13	5,905,258		Clemmer et al.	05-18-1999
H	A14	5,839,438		Graettinger et al.	11-24-1998
H	A15	5,790,761		Heseltine et al.	08-04-1998
H	A16	5,716,825		Hancock et al.	02-10-1998
H	A17	5,697,369		Long, Jr. et al.	12-16-1997
H	A18	5,687,716		Kaufmann et al.	11-18-1997
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H	A20	2003/0004402	A1	Hitt, et al.	01-02-2003

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
H	B1	PCT	WO 02/088744	A2	Syn.X Pharma, Inc.	11-07-2002	
	B2	PCT	WO 02/059822	A2	Biowulf Technologies, LLC	08-01-2002	
H	B3	PCT	WO 01/84140	A2	Mischak	11-08-2001	Abstract
H	B4	PCT	WO 01/31580	A2	Barnhill Technologies, LLC	05-03-2001	
H	B5	PCT	WO 01/31579	A2	Barnhill Technologies, LLC	05-03-2001	
H	B6	PCT	WO 01/20043	A1	Affymetrix, inc.	03-22-2001	
H	B7	PCT	WO 03/031031	A1	Ciphergen Biosystems, Inc. and Eastern Virginia Medical School	04-17-2003	
H	B8	PCT	WO 02/06829	A2	Correlogic Systems, Inc.	01-24-2002	

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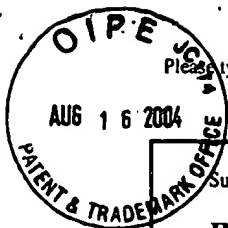
⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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		Group Art Unit	2121	
Examiner Name	Joseph P. Hirl	Attorney Docket Number	CORR-001/01US	
Sheet	2	of	7	

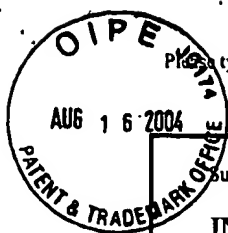
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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A	C1	GASKELL, "Electrospray: Principles and Practice," <i>Journal of Mass Spectrometry</i> , Vol. 32, pp. 677-688 (1997), John Wiley & Sons, Ltd.	
A	C2	LEWIS, "An Introduction to Classification and Regression Tree (CART) Analysis," presented at 2000 Annual Meeting of the Society for Academic Emergency Medicine in San Francisco, California, pp. 1-14, 2000.	
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A	C6	JURS et al., "Computerized Learning Machines Applied to Chemical Problems; Molecular Formula Determination from Low Resolution Mass Spectrometry," <i>Analytical Chemistry</i> , Vol. 41, No. 1, January 1969, pp. 21-27.	
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H	C8	"Constraints on "Learning Machine" Classification Methods," <i>Analytical Chemistry</i> , Vol. 48, No. 14, December 1976, pp. 2265-2268, Gray, N.A.B.	
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A	C11	ATKINSON et al., "Statistical Techniques for Diagnosing CIN Using Fluorescence Spectroscopy: SVD and CART," <i>Journal of Cellular Biochemistry</i> , Supplement 23, pp. 125-130 (1995).	
A	C12	DZEROSKI et al., "Diterpene Structure Elucidation from ¹³ C NMR-Spectra with Machine Learning," <i>Intelligent Data Analysis in Medicine and Pharmacology</i> , pp. 207-225, Kluwer Academic Publishers, 1997.	

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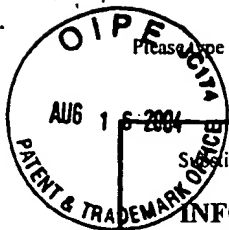
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H	C13	VOORHEES et al., "Approaches to Pyrolysis/Mass Spectrometry Data Analysis of Biological Materials," <i>Computer-Enhanced Analytical Spectroscopy</i> , Vol. 2, pp. 259-275, Plenum Press, New York, 1990.	
H	C14	REIBNEGGER et al., "Neural networks as a tool for utilizing laboratory information: Comparison with linear discriminant analysis and with classification and regression trees," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88, pp. 11426-11430, December 1991.	
H	C15	JELLUM et al., "Mass Spectrometry in Diagnosis of Metabolic Disorders," <i>Biomedical and Environmental Mass Spectrometry</i> , Vol. 16, pp. 57-62 (1988).	
H	C16	WYTHOFF et al., "Spectral Peak Verification and Recognition Using a Multilayered Neural Network," <i>Analytical Chemistry</i> , Vol. 62, No. 24, pp. 2702-2709, December 15, 1990.	
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H	C18	FURLONG et al., "Neural Network Analysis of Serial Cardiac Enzyme Data; A Clinical Application of Artificial Machine Intelligence," <i>A.J.C.P.</i> , Vol. 96, No. 1, pp. 134-141, July, 1991.	
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H	C21	MALINS et al., "Models of DNA structure achieve almost perfect discrimination between normal prostrate, benign prostatic hyperplasia (BPH), and adenocarcinoma and have a high potential for predicting BPH and prostrate cancer," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94, pp. 259-264, January 1997.	
H	C22	RICKETTS et al., "Towards the Automated Prescreening of Cervical Smears," 4 pages, March 11, 1992.	
H	C23	KOHNO et al., "Quantitative Analysis of Scintiscan Matrices by Computer," <i>Japanese Journal of Medical Electronics and Biological Engineering</i> , pp. 22-29, August 1974.	English Abstract
H	C24	Salford Systems, "Salford Systems White Paper Series," 17 pages, 2000.	

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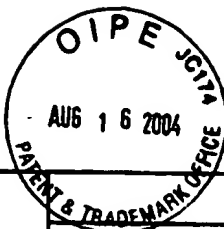
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RECEIVED**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet	4	of	7	Attorney Docket Number	CORR-001/01US
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Application Number	09/883,196
Filing Date	June 19, 2001
First Named Inventor	Ben HITT
Group Art Unit	2121
Examiner Name	Joseph P. Hirl
Technology Center	2100

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

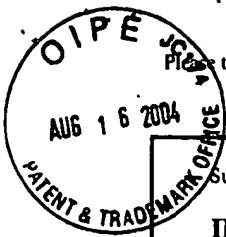
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A	C25	BERIKOV et al., "Regression trees for analysis of mutational spectra in nucleotide sequences," <i>Bioinformatics</i> , Vol. 15, nos. 7/8, 1999, pp. 553-562.	
A	C26	BREIMAN et al., <i>Classification and Regression Trees</i> , pp. 174-265, Chapman & Hall/CRC, 1998.	
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A	C28	EGHBALDAR et al., "Identification of Structural Features from Mass Spectrometry Using a Neural Network Approach: Application to Trimethylsilyl Derivatives Used for Medical Diagnosis," <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 36, No. 4, 1996, pp. 637-643.	
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A	C33	BELIC et al., "Neural network methodologies for mass spectra recognition," <i>Vacuum</i> , Vol. 48, No. 7-9, pp. 633-637, 1997.	
A	C34	WERTHER et al., "Classification of mass spectra; a comparison of yes/no classification methods for the recognition of simple structural properties," <i>Chemometrics and Intelligent Laboratory Systems</i> , Vol. 22 (1994), pp. 63-76.	
A	C35	CAIRNS et al., "Towards the Automated Prescreening of Breast X-Rays," 5 pages, March 11, 1992.	
A	C36	ASTION et al., "The Application of Backpropagation Neural Networks to Problems in Pathology and Laboratory Medicine," <i>Arch Pathol Lab Med</i> , Vol. 116, October 1992, pp. 995-1001.	

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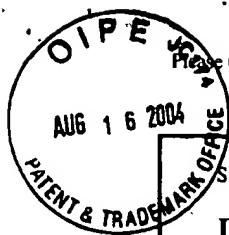
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J	C37	TAYLOR et al., "The deconvolution of pyrolysis mass spectra using genetic programming: application to the identification of some <i>Eubacterium</i> species," <i>FEMS Microbiology Letters</i> 160 (1998) pp. 237-246.	
H	C38	GOODACRE et al., "Discrimination between methicillin-resistant and methicillin-susceptible <i>Staphylococcus aureus</i> using pyrolysis mass spectrometry and artificial neural networks," <i>Journal of Antimicrobial Chemotherapy</i> , Vol. 41, pp. 27-34 (1998).	
H	C39	CHUN et al., "Long-term Identification of Streptomyces Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," <i>Zbl. Bakt.</i> 285, pp. 258-266 (1997).	
H	C40	KENYON et al., "Application of Neural Networks to the Analysis of Pyrolysis Mass Spectra," <i>Zbl. Bakt.</i> 285, pp. 267-277 (1997).	
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H	C43	GOODACRE et al., "Quantitative Analysis of Multivariate Data Using Artificial Neural Networks: A Tutorial Review and Applications to the Deconvolution of Pyrolysis Mass Spectra," <i>Zbl. Bakt.</i> 284 pp. 516-539 (1996).	
H	C44	GOODACRE et al., "Identification and Discrimination of Oral Asaccharolytic <i>Eubacterium</i> spp. by Pyrolysis Mass Spectrometry and Artificial Neural Networks," <i>Current Microbiology</i> , Vol. 32, pp. 77-84, (1996).	
H	C45	GOODACRE et al., "Correction of Mass Spectral Drift Using Artificial Neural Networks," <i>Anal. Chem.</i> , (1996), Vol. 68, pp. 271-280.	
H	C46	FREEMAN et al., "Resolution of batch variations in pyrolysis mass spectrometry of bacteria by the use of artificial neural network analysis," <i>Antonie van Leeuwenhoek</i> Vol. 68, pp. 253-260, (1995), Kluwer Academic Publishers, The Netherlands.	
H	C47	CHACE et al., "Laboratory integration and utilization of tandem mass spectrometry in neonatal screening: a model for clinical mass spectrometry in the next millennium," <i>Acta Paediatr. Suppl.</i> 432, pp. 45-47 (1999).	
H	C48	CURRY et al., "MSnet: A Neural Network That Classifies Mass Spectra," 32 pages, (1990).	

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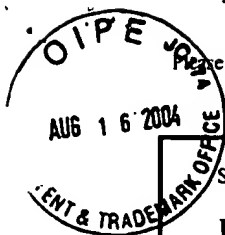
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A	C49	SHAW et al., "Infrared Spectroscopy of Exfoliated Cervical Cell Specimens," <i>Analytical and Quantitative Cytology and Histology</i> , Vol. 21, Number 4, August 1999, pp. 292-302.	
A	C50	BELIC, "Neural Networks Methodologies for Mass Spectra Recognition," pp. 375-380.	
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A	C57	NIKULIN et al., "Near-optimal region selection for feature space reduction: novel preprocessing methods for classifying MR spectra," <i>NMR Biomedicine</i> , Vol. 11, pp. 209-216 (1998).	
A	C58	ALAIYA et al., "Classification of Human Ovarian Tumors Using Multivariate Data Analysis of Polypeptide Expression Patterns," <i>Int. J. Cancer</i> , Vol. 86, pp. 731-736 (2000).	
A	C59	BAILEY-KELLOGG et al., "Reducing Mass Degeneracy in SAR by MS by Stable Isotopic Labeling," <i>Journal of Computational Biology</i> , Vol. 8, No. 1, pp. 19-36 (2001).	
A	C60	CAPRIOLI et al., "Molecular Imaging of Biological Samples: Localization of Peptides and Proteins Using MALDI-TOF MS," <i>Analytical Chemistry</i> , Vol. 69, No. 23, pp. 4751-4760, December 1, 1997.	

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#	C61	GEORGE, "A Visualization and Design Tool (AVID) for Data Mining with the Self-Organizing Feature Map," <i>International Journal on Artificial Intelligence Tools</i> , Vol. 9, No. 3, pp. 369-375, (2000).	
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#	C63	MARVIN et al., "Characterization of a novel <i>Sepia officinalis</i> neuropeptide using MALDI-TOL MS and post-source decay analysis," <i>Peptides</i> , Vol. 22, pp. 1391-1396, (2001).	
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Examiner Signature		Date Considered	11/16/04
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Unique citation designation number.

² Applicant is to place a check mark here if English language Translation attached.

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